

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Sanders

SERIAL NO.:

10/664,408

GROUP NO.:

Not yet assigned

FILING DATE:

September 17, 2003

EXAMINER:

Not yet assigned

TITLE:

Electrochemical Generation, Storage and Reaction of Hydrogen and

Oxygen

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with the U.S. Patent Office's partial waiver of the requirement under 37 C.F.R. 1.98(a)(2)(i), only copies of the foreign patent documents and non-patent publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

\boxtimes	(1)	within three (3) months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. 1.114; or
	(2)	after the period defined in (1) but before the mailing date of a final action or a notice of allowance under 37 C.F.R. 1.311, and
		the requisite Statement is below, OR
		the requisite fee under 37 C.F.R. 1.17(p), namely \$180.00, is included herein, or

Information Disclosure Statement Serial No. 10/664,408 Page 2 of 2

□ .	(3)	after the mailing date of a final action or notice of allowance but before the payment of the issue fee, AND
		the requisite Statement is below, AND
		the requisite petition fee under 37 C.F.R. 1.17(p), namely \$180.00 is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page <u>and</u> the Statement is required]:

- 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R.

 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

Date: December 9, 2003 Reg. No. 45,238

106. 110. 45,250

Tel. No.: (617) 310-8176 Fax No.: (617) 248-7100

2722758

Respectfully submitted,

Gerald E. Worth

Atty/Agent for Applicant(s)
Testa, Hurwitz, & Thibeault, LLP

High Street Tower 125 High Street

Boston, Massachusetts 02110



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CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 9th day of December, 2003.

Heather Morgan

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith is/are:

- 1) Transmittal Form (1 pg.);
- 2) Information Disclosure Statement (2 pgs.);
- 3) Form PTO-1449 (3 pgs.);
- 4) Copies of references (C1-C11); and
- 5) Return receipt postcard.

All Submitted under this Certificate of First Class Mailing Under 37 C.F.R.§ 1.8.

		Application	Application Serial Number		10/664,408			
			Filing Date		7	September 17, 2003		
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	Information Disclosure Statement		Small Entity S	tatement		Transmittal of Formal Drawi Petition Under 37 C.F.R. § 1		
	✓ Form PTO-1449✓ Copies of IDSCitations		CD(s) for large	e table or computer				
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Direct a	Testa, Hui High Stree 125 High Boston, M Tel. No.: (ibeault, LLP	Date: December 9, 20 Reg. No. 45, 238 Tel. No.: (617) 310- Fax No.: (617) 248-	-817	Gerald E. Worth Attorney for Applicant	LLP .	

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FORM PTO - 1449

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INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.:

NAS-001

APPLICANT(S):

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SERIAL NO.:

10/664,408

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Not yet assigned

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
-	Al	3,577,324	05/04/71	Patterson	204	20	
	A2	3,632,496	01/04/72	Patterson et al.	204	249	
	A3	3,899,351	08/12/75	Maurer et al.	136	34	
	A4	4,211,537	07/08/80	Teitel	48	191	
	A5	4,302,217	11/24/81	Teitel	48	180	
	A6	4,336,226	06/22/82	Christensen	422	109	
	A7	4,430,391	02/7/84	Ovshinsky et al.	429	40	
	A8	4,431,561	02/14/84	Ovshinsky et al.	252	184	
	A9	4,487,818	12/11/84	Ovshinsky et al.	429	44	
	A10	4,623,597	11/18/86	Sapru et al.	429	101	
	A11	4,637,990	01/20/87	Torobin	502	10	
	A12	4,793,980	12/27/88	Torobin	423	213.5	
	A13	4,943,355	07/24/90	Patterson	204	20	
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	A20	5,318,675	06/07/94	Patterson	204	86	
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	A23	5,384,210	01/24/95	Furukawa	429	59	

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· -	A25	5,523,182	06/04/96	Ovshinsk			429	223			
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	A27	5,585,112	12/17/96	Unger et a			424	450			
	A28	5,607,563	03/04/97	Patterson			204	269			
	A29	5,632,871	05/27/97	Patterson			204	275			
	A30	5,635,038	06/03/97	Patterson			204	222			
	A31	5,814,108	09/29/98	Nanamoto	et al.		29	623.1			
	A32	6,231,642 B1	05/15/01	Shelby et			95	45			
	A33	6,315,981 B1	11/13/01	Unger		T.	424	9.323			
	A34	6,440,607 B1	08/27/02	Harada et	al.		429	223			
	A35	6,445,195 B1	09/03/02	Ward			324	684			
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-	A37	6,447,699 B1	09/10/02	Bernard e	t al.		252	521.2			
	A38	6,447,942 B1	09/10/02	Ovshinsky			429	27			
	A39	6,447,953 B1	09/10/02	Fierro et a			429	223			
	A40	6,455,195 B1	09/24/02	Matsuura			429	218.2			
	A41	6,455,196 B1	09/24/02	Kato et al.			429	223			
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EXAM.		DOCUMENT	DATE	COUNTRY		SUB	FILING	ABSTRA	CT	ENGLISH	
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ATTORNEY DOCKET NO.:

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PYTORMATION DISCLOSURE STATEMENT

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10/664,408

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	,	OTHER ART, JOURNAL ARTICLES, ETC.					
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)						
	Cl	Battery Technologies, Inc., http://www.bti.ca/ramcon.htm, printed December 8, 2001, 3 pages					
	C2	Colossus, http://colossus.chem.umass.edu/chandler/ch112/cells.htm, printed December 8, 2002, 6 pages.					
	C3	Kopera, John C., "Inside the Nickel Metal Hydride Battery", Texaco Ovonic Battery Systems LLC, 15 pages, July 25, 2002.					
	C4	Huanyubattery, http://hyper.net.cn/know/12.htm, printed November 14, 2002, 3 pages.					
	C5	Moltech, http://www.moltech.com/techdata/appmanuals/NiMH Application Manual.asp, printed November 14, 2002, 22 pages.					
	C6	Nelson, Robert, "The Basic Chemistry of Gas Recombination in Lead-Acid Batteries", JOM, http://www.tms.org/pubs/journals/JOM/0101/Nelson-0101.html, pp.28-33, printed October 30, 2002.					
	C7	Panasonic, "Nickel Metal Hydride Handbook", 5 pages, February 2002					
	C8	Saft Automotive, http://www.saftbatteries.com/automotive/uk/datasheet/d2_3.htm, printed December 8, 2002, 2 pages					
	C9	Granta Design, http://www.grantadesign.com/solutions/metalfoams.htm, printed November 25, 2002, 3 pages.					
	C10	Munehisa Ikoma, Shinji Hamada, Nobuyasu Mishita, Yasuko Hoshina, Hiromu Matsuda, Kazuhiro Ohta, Tadao Kimura, "Development of a Nickel/Metal Hydride Battery (NI/MH) System for EV Application", The Electrochemical Society Proceedings Volume 94-27, pp 370-380, (September 14, 2002).					
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